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## Office Memorandum . United states government

TO:	The Files		DATE:	22 August 1960	
FROM :		BOC         ORN         REV EATE         O/OS \$00 DAY           ORIG COMP         233 CPI         372 FYIO           ORIG CLASS         5 PAGES         2 65V E           JUST         22         DENT GEV         25/9 L	02		
subject:	Trip Report - Contract RD-161	, Task Order 3, Frequency to T	me Transi	! formation Study	
tored	progress on the conducted by	1960 the undersigned and frequency-domain-to-time-domain on this program were held with		SPS/EA, moni-	
					1/5
Most of the has be there of the ingresult; will be network ing the complete	for the investig f the time, to d circuitry for a en found that in are formed, inev main spike. Si formation is in s in elimination e necessary to in ks in order to e has severa is end. The desi ted, and component	ation techniques being studied ate, has been spent in reasoning complishing the frequency to the sending a signal through the critiably, low-power sidebands whince it is desired to be able to the time domain, and since gating of only 90 per cent of the sign exestigate additional shaping of liminate these sidebands from the techniques in mind which may ign for the breadboard circuitments and packaging have been order.	under thing out the cime transcompressive chextend gate out of mal, it if the spine time does usefully has been ered.	e logical design sformation. It re networks, to both sides a signal while only the spike of felt that it ke with filter omain. In accomplishmessentially	
3	For experiment	cal purposes a possible operati	onal requ	irement was	

3. For experimental purposes a possible operational requirement was given to the contractor which necessitated the gating out of all signals in excess of a certain given amplitude. In other words, all high power signals will be eliminated and the information of the low power signals, which would be the signals of interest, could be analyzed without distortion. It appears now that this may be a rather difficult job to accomplish since the low amplitude signals tend to have lower signal to noise ratios and are subsequently more difficult to analyze. It is felt by the contractor that perhaps this form of investigation should be held off for the present until some degree of success has been achieved with easier problems. The most apparent example, requiring a relatively simple technique, would be a shaping device in which all of the signals below a certain amplitude are gated out in the time domain,



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SUBJECT:	Trip	Repo
	**	110 PC

Report -

Contract RD-101, Task Order 3, Frequency to Time Transformation Study

while signals over this threshold would be reconstituted in the frequency domain for analysis. This problem will be discussed with the interested divisions to determine the most desirable direction for the contractor to follow.

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